

# Application Profile

- Project:** Petro-Canada GOT Project, Edmonton, Alberta, CANADA
- Polyurea Applicator:** Advance Coating Solutions, Edmonton, Alberta, CANADA  
Stantec Consulting Ltd., Edmonton, Alberta  
Tech Support / Inspection by Primeaux Associates LLC
- Polyurea System Applied:** VersaFlex FSS 45DC, VersaFlex Incorporated
- Substrate / Area:** Chemical Containment, over Geotextile (spun-bond polyester)  
Approximately 380,000 ft<sup>2</sup>
- Date:** Applied 2005

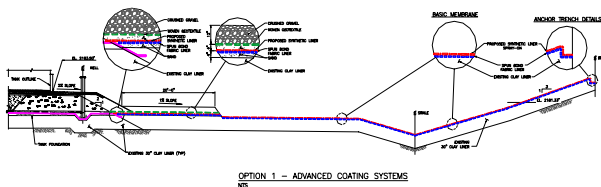
For Petro-Canada's GOT Project, two new chemical storage tanks were being constructed with a clay liner system for secondary containment. Petro-Canada and Stantec Consulting proposed a clay liner upgrade to a synthetic geo-membrane / polyurea based on the FSS 45 DC polyurea spray elastomer system, as opposed to a sheet good liner system based upon a thermoplastic material. Being aware of environmental issues related to leaks and spills of chemicals, a seamless systems was required. The FSS 45 DC over geotextile was chosen as the liner system for this application due to elastomer performance, flexibility, installation ability in cold weather and the size of the area numerous penetrations. A nominal 60 mils (1.5 mm) was applied to the geotextile.



The FSS 45 DC polyurea spray elastomer systems over the geotextile membrane was found to meet the following requirements of Natural Resources Canada:

**CCME PN1326 "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products",** Section 3.9 Secondary Containment Requirements

**ULC/ORD-C58.9-1997 "Secondary Containment Liners For Underground And Aboveground Flammable And Combustible Liquid Tanks"**



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